

Express Mail No. Title: COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF PROSTATE CANCER
EL897865563US

Inventor(s): Jiangchun Xu et al. Serial No. 09/780,669 Docket No. 210121.427C24

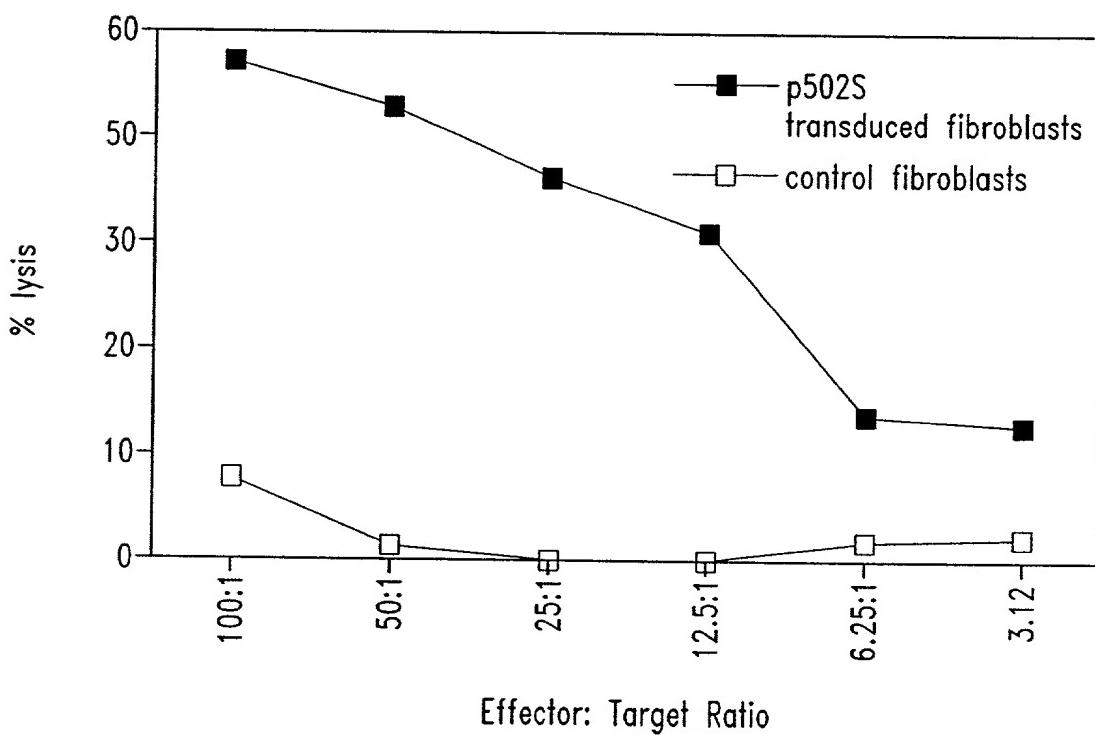


Fig. 1

Title: COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF PROSTATE CANCER

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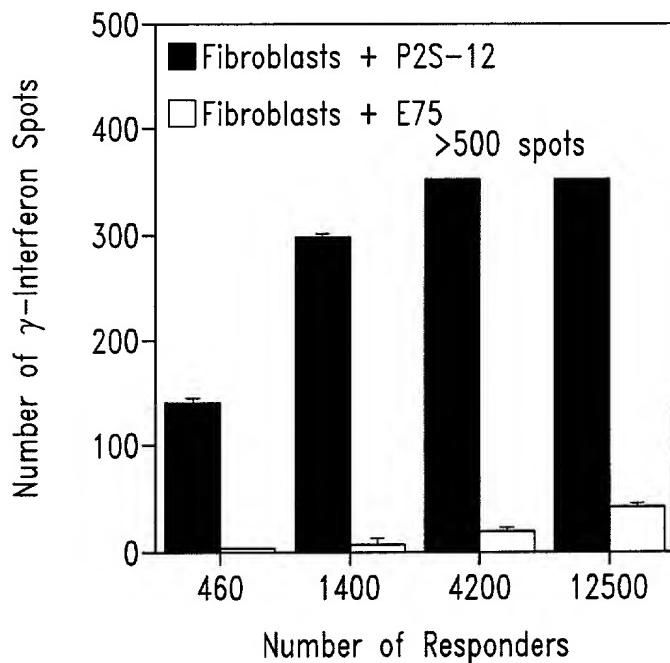


Fig. 2A

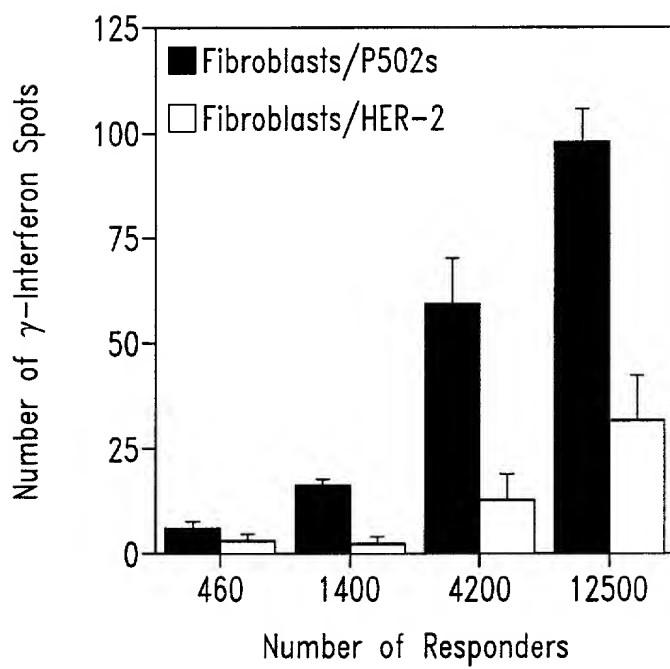


Fig. 2B

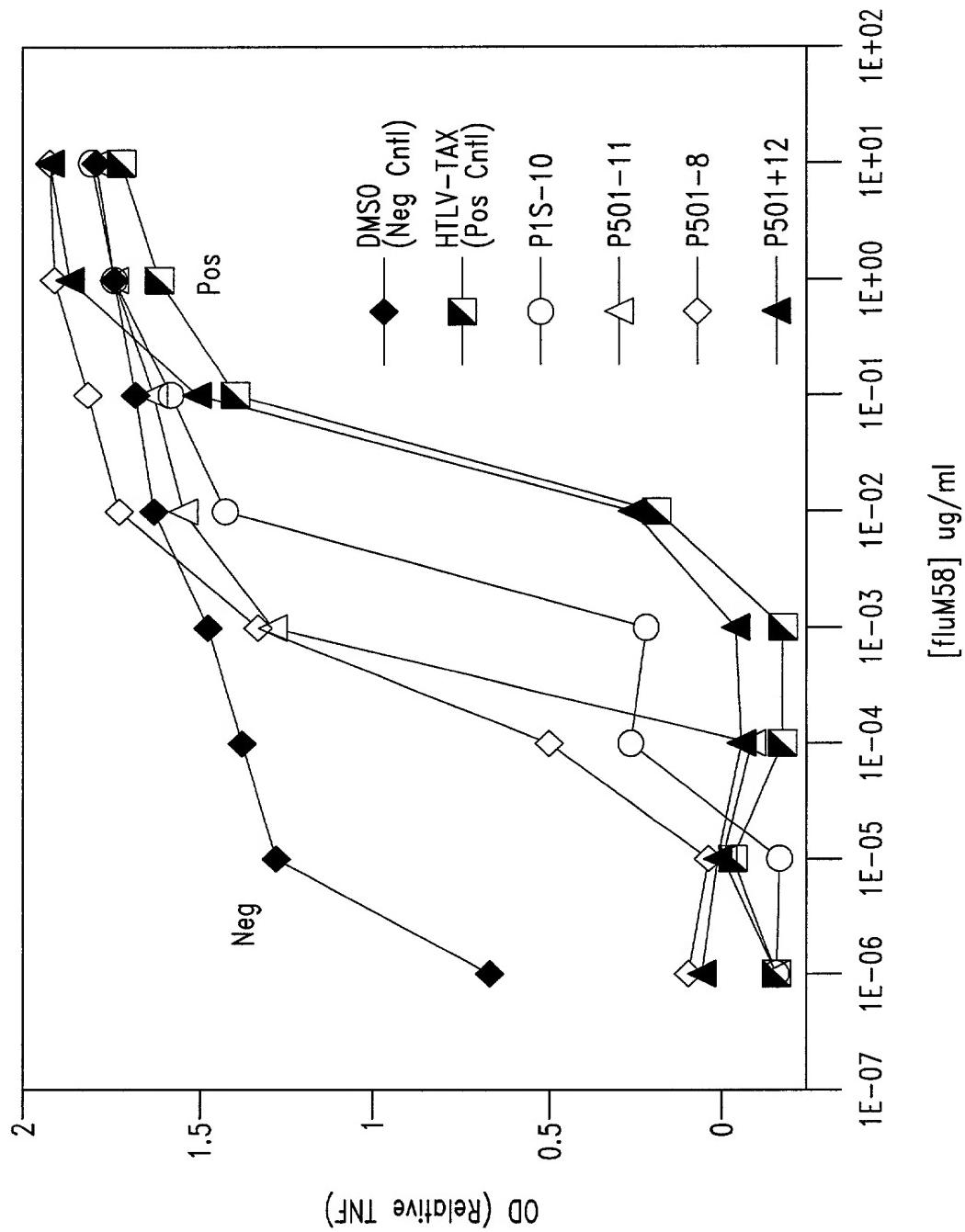


Fig. 3

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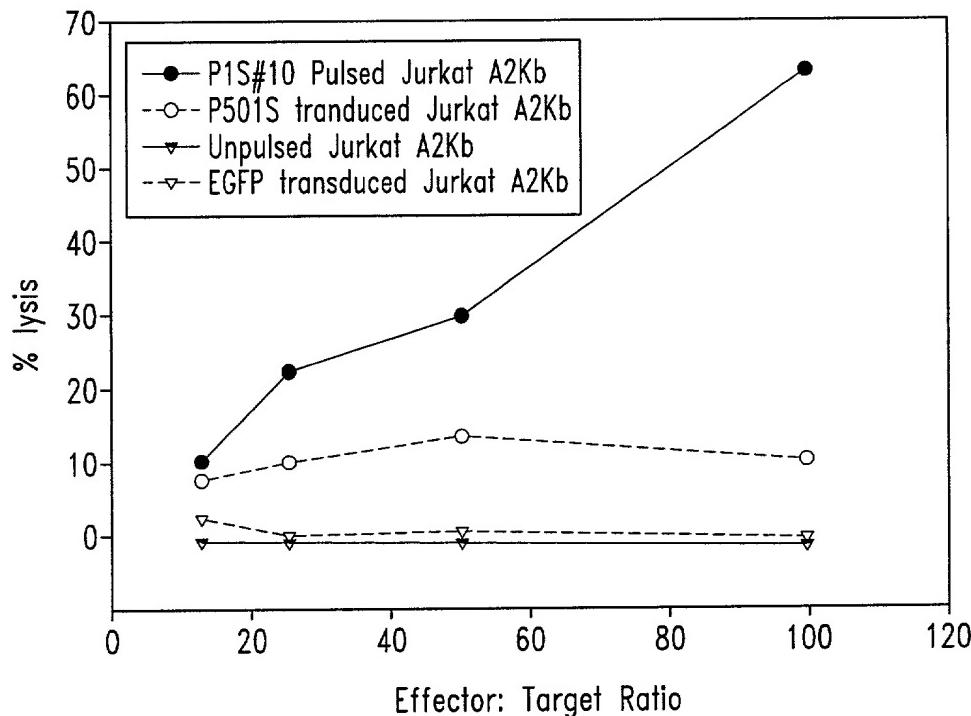


Fig. 4

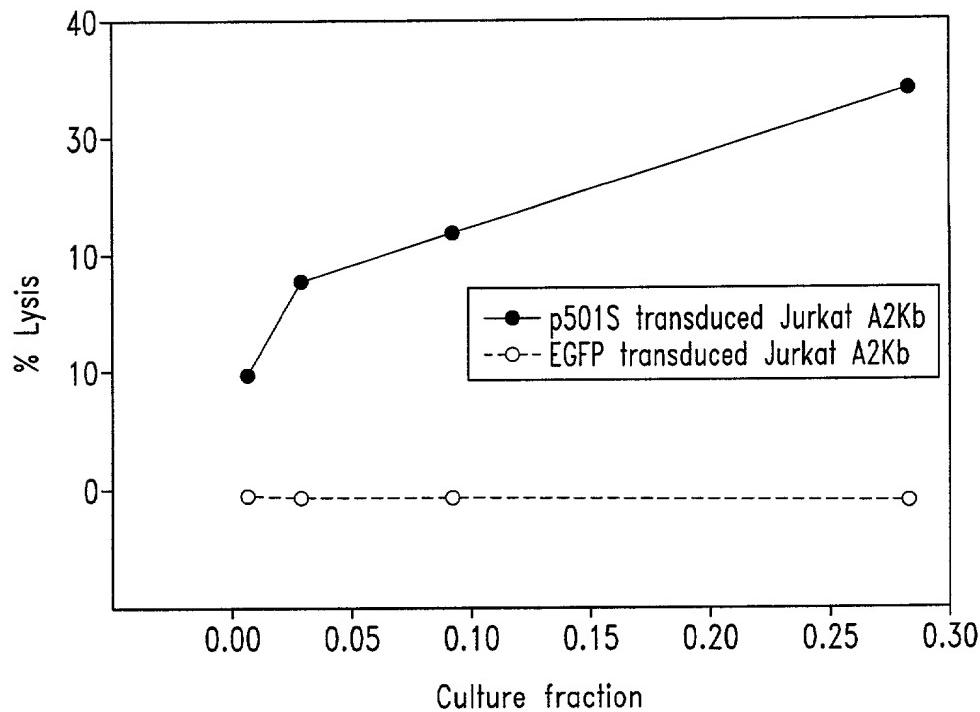


Fig. 5

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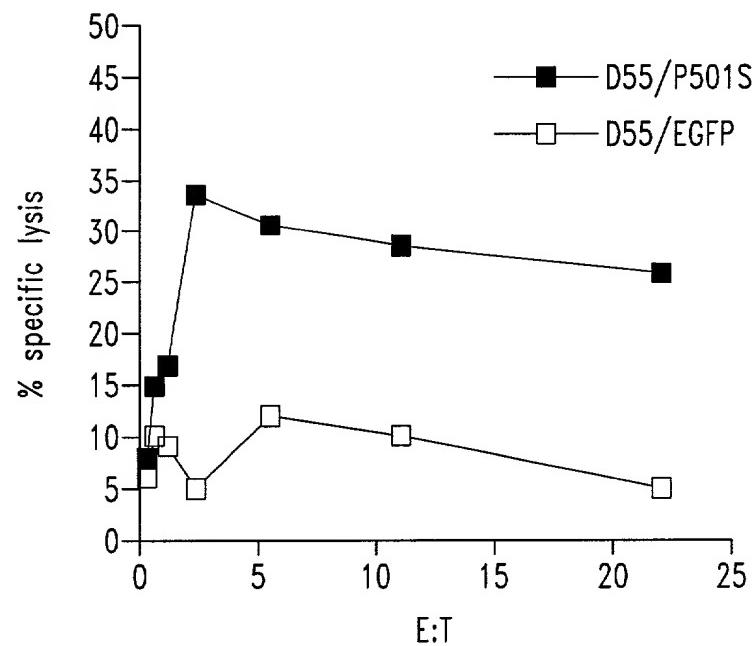


Fig. 6A

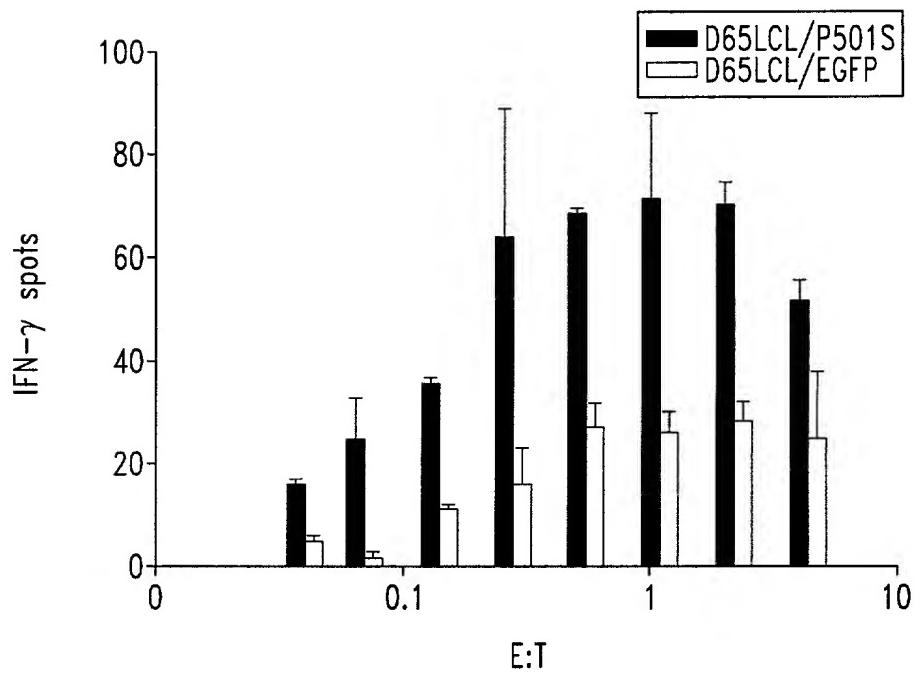
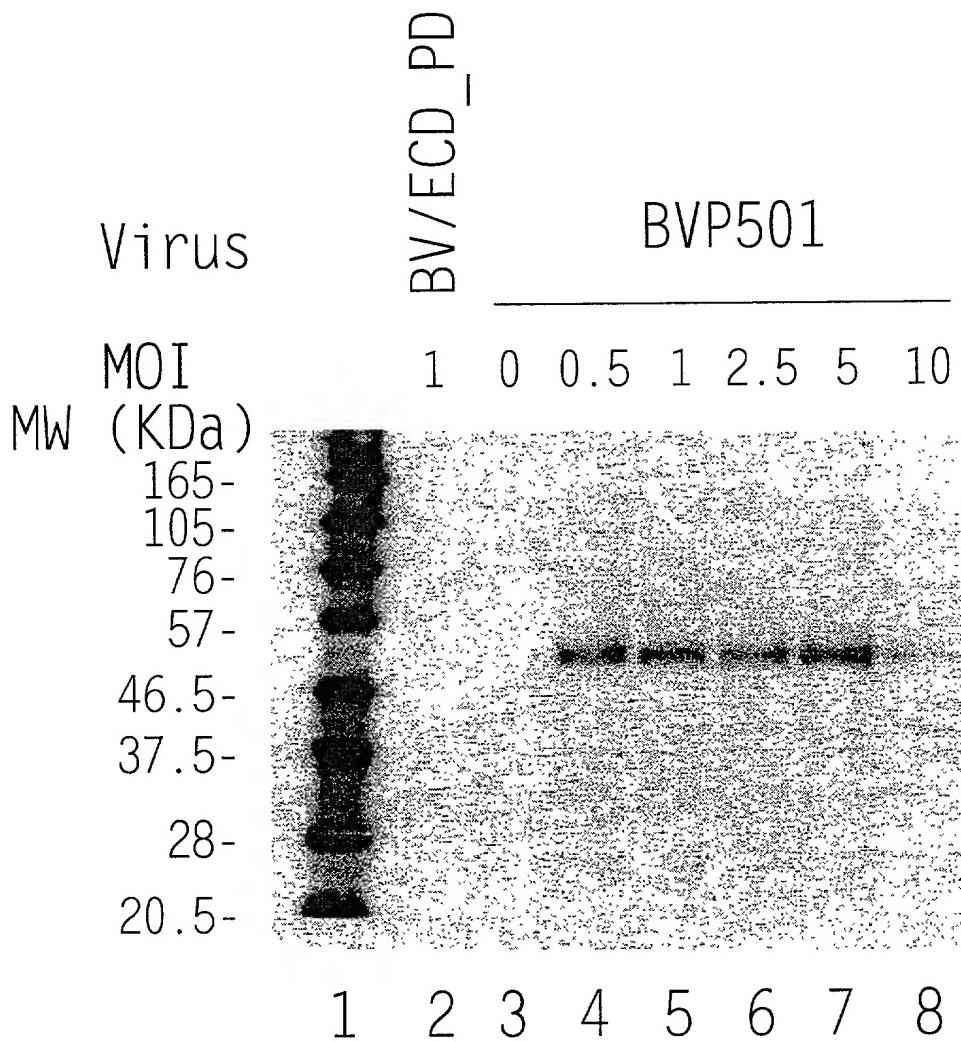


Fig. 6B

Expression of P501S
by the Baculovirus Expression System



C 6 million high 5 cells in 6-well plate were infected with an unrelated control virus BV/ECD_PD (lane2), without virus (lane3), or with recombinant baculovirus for P501 at different MOIs (lane 4-8). Cell lysates were run on SDS-PAGE under the reducing conditions and analyzed by Western blot with a monoclonal antibody against P501S (P501S-10E3-G4D3). Lane 1 is the biotinylated protein molecular weight marker (BioLabs).

Fig. 7

FIGURE 8. Mapping of the epitope recognized by
10E3-G4-D3

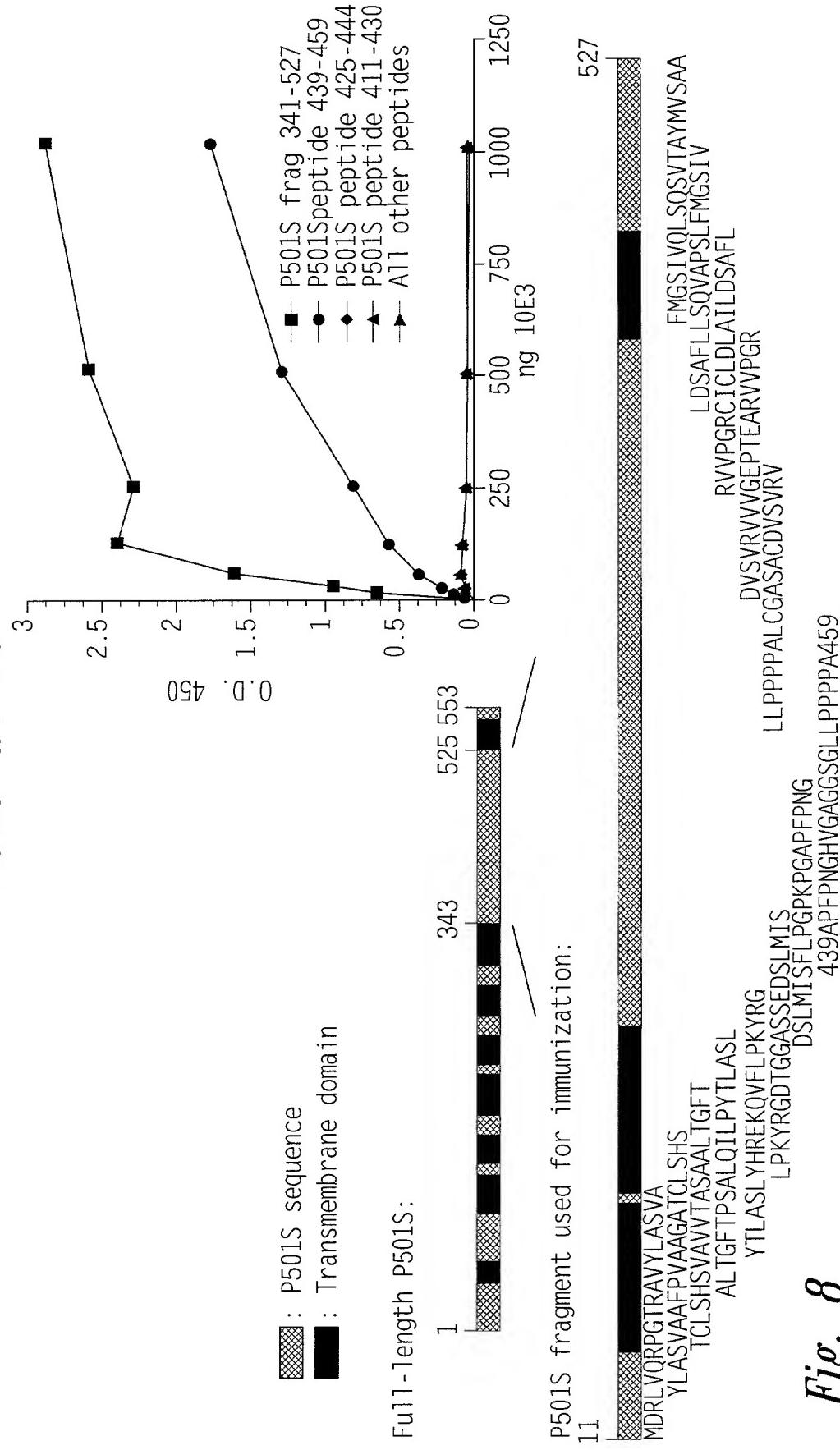


Fig. 8

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Schematic of P501S with predicted
transmembrane, cytoplasmic, and extracellular regions

MVQRLWVSRLLRHRK AQLLVNLTFGLEVCLAAGIT YVPPPLLLEVGVEEKFM
TMVLGIGPVGLVCYPLLGSAS

DHWRGRYGRRRP FIWALSLGILLSFLIPRAGWL AGLLCPDPRPLE LALLILGVGLLDFCGQVCFTPL

EALLSDLFRDPDHCRQ AYSVYAFMISLGGLGYLLPAI DWDT SALAPYLGTQEE

CLFGLLTLIFLTCVAATLLV AEEAALGPTEPAEGLSAPSLSPHCCPCRARLAFRNLGALLPRL

HQLCCRMPTLRR LFVAELCSWMALMTFLFYTDV VGEGLYQGVPRAE PGTEARRHYDEGVR

MGSGLFLQCAISLVFSLVM DRLVQRFGTRAVYLAS VAAFPVAAGATCLSHSVAVVTA SAA

LTGFTFSALQILPYTLASLY HREKQVFLPKYRGDTGGASSEDLSMTSFLPGPKPGAPFPNGHV GAGGSGL

LPPPPALCGASACDVSRVVVGEPTEARVVPGRG ICLDLAILDSAFLSQVAPSLF MGSIVQLSQS

VTAYMVSAAGLGLVAIYFAT QVVFDFKSDLAKYSA

Underlined sequence: Predicted transmembrane domain; **Bold sequence:**
Predicted extracellular domain; *Italic sequence:* Predicted intracellular
domain. Sequence in bold/underlined: used generate polyclonal rabbit
serum

Localization of domains predicted using HMMTOP (G.E. Tusnady an I. Simon
(1998) Principles Governing Amino Acid Composition of Integral Membrane
Proteins: Applications to topology Prediction.J.Mol Biol. 283, 489-506.

Fig. 9

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Genomic Map of (5) Corixa Candidate Genes

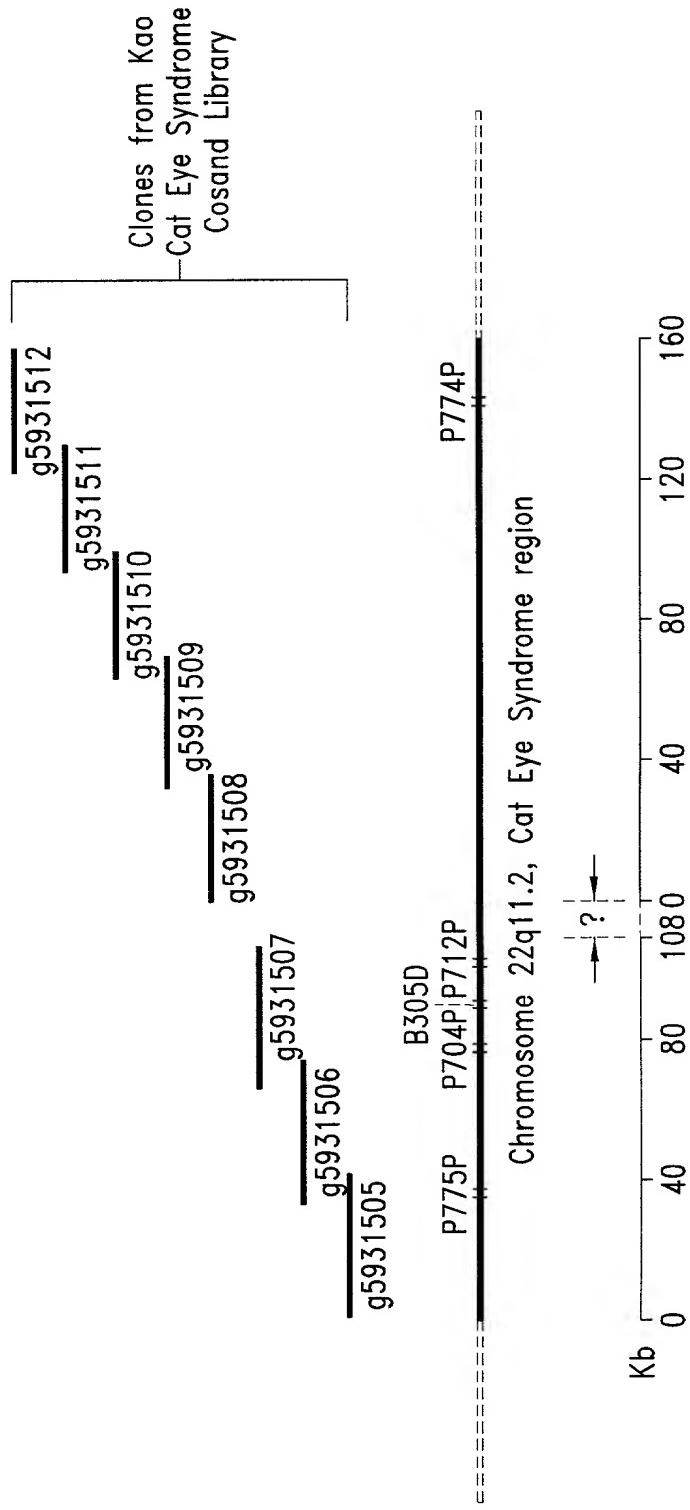


Fig. 10

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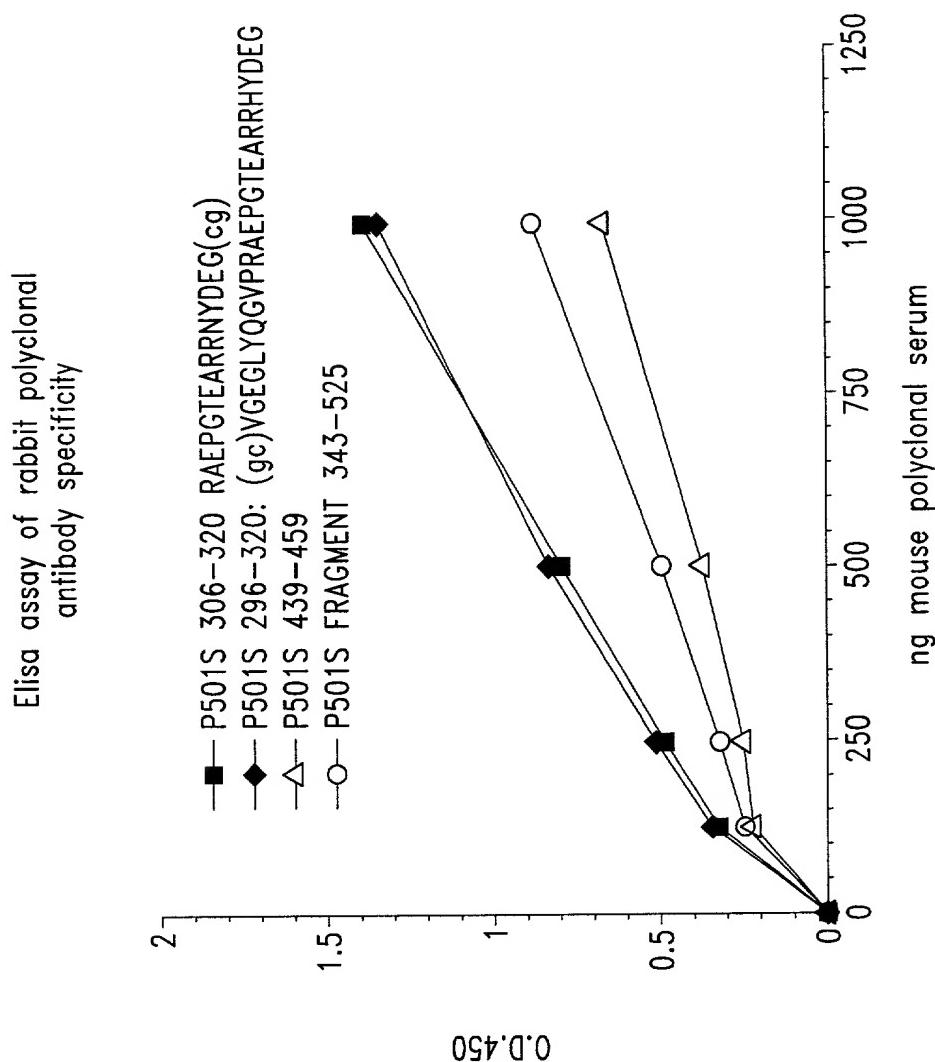


Fig. 11

GTCACCTAGG AAAAGGTGTC CTTTCGGGCA GCCGGGCTCA GCATGAGGAA CAGAAGGAAT 60
 GACACTCTGG ACAGCACCCG GACCCTGTAC TCCAGCGCGT CTCGGAGCAC AGACTTGCT 120
 TACAGTGAAA GCGACTTGGT GAATTATT CAAGCAAATT TTAAGAACG AGAATGTGTC 180
 TTCTTACCA AAGATTCCA GGCCACGGAG AATGTGTGCA AGTGTGGCTA TGCCCAGAGC 240
 CAGCACATGG AAGGCACCCA GATCAACCAA AGTGAGAAAT GGAACACTACAA GAAACACACC 300
 AAGGAATTTC CTACCGACGC CTTTGGGGAT ATTCAAGTTG AGACACTGGG GAAGAAAGGG 360
 AAGTATATAC GTCTGTCTG CGACACGGAC GCGGAAATCC TTTACGAGCT GCTGACCCAG 420
 CACTGGCACCC TGAAAACACC CAACCTGGTC ATTTCTGTGA CCGGGGGCGC CAAGAACTTC 480
 GCCCTGAAGC CGCGCATGCG CAAGATCTTC AGCCGGCTCA TCTACATCGC GCAGTCCAAA 540
 GGTGCTTGGA TTCTCACGGG AGGCACCCAT TATGGCCTGA CGAAGTACAT CGGGGAGGTG 600
 GTGAGAGATA ACACCATCAG CAGGAGTTCA GAGGAGAATA TTGTGGCCAT TGGCATAGCA 660
 GCTTGGGGCA TGGTCTCAA CCAGGACACC CTCATCAGGA ATTGCGATGC TGAGGGCTAT 720
 TTTTAGCCC AGTACCTTAT GGATGACTTC ACAAGGGATC CACTGTATAT CCTGGACAAC 780
 AACCACACAC ATTTGCTGCT CGTGGACAAT GGCTGTATG GACATCCCAC TGTCGAAGCA 840
 AAGCTCCGGA ATCAGCTAGA GAAGCATATC TCTGAGCGCA CTATTCAAGA TTCCAACAT 900
 GGTGGCAAGA TCCCCATTGT GTGTTTGCC CAAGGAGGTG GAAAAGAGAC TTGAAAGGCC 960
 ATCAATACCT CCATCAAAAAA TAAAATTCTC TGTGTGGTGG TGGAAGGCTC GGGCCGGATC 1020
 GCTGATGTGA TCGCTAGCCT GGTGGAGGTG GAGGATGCC CGACATCTTC TGCCGTCAAG 1080
 GAGAAGCTGG TGCGCTTTT ACCCCGCACG GTGTCCCGC TGTCTGAGGA GGAGACTGAG 1140
 AGTTGGATCA AATGGCTAA AGAAATTCTC GAATGTTCTC ACCTATTAAC AGTTATTAAA 1200
 ATGGAAGAAG CTGGGGATGA AATTGTGAGC AATGCCATCT CCTACGCTCT ATACAAAGGCC 1260
 TTCAGCACCA GTGAGCAAGA CAAGGATAAC TGGAATGGC AGCTGAAGCT TCTGCTGGAG 1320
 TGGAACCAGC TGGACTTAGC CAATGATGAG ATTTTCACCA ATGACCGCCG ATGGGAGTCT 1380
 GCTGACCTTC AAGAAGTCAT GTTACGGCT CTCATAAAGG ACAGACCCAA GTTGTCCGC 1440
 CTCTTCTGG AGAATGGCTT GAACCTACGG AAGTTCTCA CCCATGATGT CCTCACTGAA 1500
 CTCTTCTCCA ACCACTTCAG CACGCTTGTG TACCGGAATC TGCAAGATCGC CAAGAATTCC 1560
 TATAATGATG CCCTCCTCAC GTTGTCTGG AAACGTGGTT CGAACCTCCG AAGAGGCTTC 1620
 CGGAAGGAAG ACAGAAATGG CCGGGACGAG ATGGACATAG AACTCCACGA CGTGTCTCCT 1680
 ATTACTCGGC ACCCCCTGCA AGCTCTCTTC ATCTGGGCCA TTCTTCAGAA TAAGAAGGAA 1740
 CTCTCAAAG TCATTTGGGA GCAGACCAGG GGCTGCACTC TGGCAGCCCT GGGAGCCAGC 1800
 AAGCTTCTGA AGACTCTGGC CAAAGTGAAG AACGACATCA ATGCTGCTGG GGAGTCCGAG 1860
 GAGCTGGCTA ATGAGTACGA GACCCGGCT GTTGAGCTGT TCACTGAGTG TTACAGCAGC 1920
 GATGAAGACT TGGCAGAACCA GCTGCTGGTC TATTCTGTG AAGCTTGGGG TGGAAGCAAC 1980
 TGTCTGGAGC TGGCGGTGGA GGCCACAGAC CAGCATTCA CCGCCAGCC TGGGGTCCAG 2040
 AATTTCTTT CTAAGCAATG GTATGGAGAG ATTTCCCGAG ACACCAAGAA CTGGAAGATT 2100

Fig. 12A (1)

20210121.427C24-001

ATCCTGTGTC TGTTTATTAT ACCCTGGTG GGCTGTGGCT TTGTATCATT TAGGAAGAAA 2160
 CCTGTCGACA AGCACAAAGAA GCTGCTTGG TACTATGTGG CGTTCTTCAC CTCCCCCTTC 2220
 GTGGTCTTCT CCTGGAATGT GGTCTTCTAC ATCGCCTTCC TCCTGCTGTT TGCGTACGTG 2280
 CTGCTCATGG ATTTCCATTG GGTGCCACAC CCCCCCGAGC TGGTCTGTA CTCGCTGGTC 2340
 TTTGTCTCT TCTGTGATGA AGTGAGACAG TGGTACGTAA ATGGGGTGAA TTATTTTACT 2400
 GACCTGTGGA ATGTGATGGA CACGCTGGGG CTTTTTACT TCATAGCAGG AATTGTATTT 2460
 CGGCTCCACT CTTCTAATAA AAGCTCTTG TATTCTGGAC GAGTCATTT CTGTCTGGAC 2520
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 AAGATTATAA TGCTGCAGAG GATGCTGATC GATGTGTTCT TCTTCCTGTT CCTCTTTGCG 2640
 GTGTGGATGG TGGCCTTGG CGTGGCCAGG CAAGGGATCC TTAGGCAGAA TGAGCAGCGC 2700
 TGGAGGTGGA TATTCCGTTG GGTCTACTAC GAGCCCTACC TGGCCATGTT CGGCCAGGTG 2760
 CCCAGTGACG TGGATGGTAC CACGTATGAC TTTGCCACT GCACCTTCAC TGGGAATGAG 2820
 TCCAAGCCAC TGTGTGTGGA GCTGGATGAG CACAACCTGC CCCGGTTCCC CGAGTGGATC 2880
 ACCATCCCCC TGGGTGTGAT CTACATGTTA TCCACCAACA TCCTGCTGGT CAACCTGCTG 2940
 GTCGCCATGT TTGGCTACAC GGTGGCACC GTCCAGGAGA ACAATGACCA GGTCTGGAAG 3000
 TTCCAGAGGT ACTTCCTGGT GCAGGAGTAC TGCAAGCCGCC TCAATATCCC CTTCCCTTC 3060
 ATCGTCTTCG CTTACTTCTA CATGGTGGTG AAGAAGTGCT TCAAGTGTG TGCAAGGAG 3120
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 GAGGGTGTCA TGAAGGAAAA CTACCTGTC AAGATCAACA CAAAAGCCAA CGACACCTCA 3240
 GAGGAAATGA GGCATCGATT TAGACAATG GATACAAAGC TTAATGATCT CAAGGGTCTT 3300
 CTGAAAGAGA TTGCTAATAA AATCAAATAA AACTGTATGA AACTCTAATG GAGAAAATC 3360
 TAATTATAGC AAGATCATAT TAAGGAATGC TGATGAACAA TTTGCTATC GACTACTAA 3420
 TGAGAGATT TCAGACCCCT GGGTACATGG TGGATGATTT TAAATCACCC TAGTGTGCTG 3480
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 GACTGGAGGT TGATAGTTA AGTGTGTTCT TACCGCCTCC TTTTCCTT AATCTTATT 3660
 TTGATGAACA CATATATAGG AGAACATCTA TCCTATGAAT AAGAACCTGG TCATGTTTA 3720
 CTCCTGTATT GTTATTTGT TCATTTCAA TTGATTCTCT ACTTTCCCT TTTTTGTATT 3780
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 AAGGCACTAC TGACTTTGTT CTTATTGGAT ACTCCTCTTA TTTATTATTT TTCCATTAAA 4080
 AATAATAGCT GGCTATTATA GAAAATTAG ACCATACAGA GATGTAGAAA GAACATAAT 4140
 TGTCCCCATT ACCTTAAGGT AATCACTGCT AACAAATTCT GGATGGTTTT TCAAGTCTAT 4200
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 TCATAGCCTT CTTAAACATT ATATCAATAA TTGCATAATA GGCAACCTCT AGCGATTACC 4380
 ATAATTTGC TCATTGAAGG CTATCTCAG TTGATCATTG GGATGAGCAT CTTTGTGCT 4440
 GAATCCTATT GCTGTATTT GGAAAATTTC CCAAGGTTAG ATTCCAATAA ATATCTATT 4500
 ATTATTAAT ATTAAAATAT CGATTATTA TAAAACCAT TTATAAGGCT

Fig. 12A (2)

TTTCATAAA 4560 TGTATAGCAA ATAGGAATT A TTAAC TTGAG CATAAGATAT GAGATACATG AACCTGAAC T 4620 ATTAAAATAA AATATTATAT TTAAC CCTAG TTTAAGAAGA AGTCAATATG CTTATTTAAA 4680 TATTATGGAT GGTGGGCAGA TCAC TTGAGG TCAGGAGTTC GAGACCAGCC TGGCCAACAT 4740 GGCAAAACCA CATCTCTACT AAAAATAAAA AAATTAGCTG GGTGTGGTGG TGCACTCCTG 4800 TAATCCCAGC TACTCAGAAG GCTGAGGTAC AAGAATTGCT GGAACCTGGG AGGC GGAGGT 4860 TGCGAGTGAAC CAAGATTGCA CCACTGC ACT CCAGCCGGGG TGACAGAGTG AGACTCCGAC 4920 TGAAAATAAA TAAATAAATA AATAAATAAA TAAATAAATA AATATTATGG ATGGTGAAGG 4980 GAATGGTATA GAATTGGAGA GATTATCTTA CTGAACACCT GTAGTCCAG CTTTCTCTGG 5040 AAGTGGTGGT ATTTGAGCAG GATGTGCACA AGGCAATTGA AATGCCATA ATTGTTTCT 5100 CAGCTTGAA TACACTATAA ACTCAGTGGC TGAAGGAGGA AATTTTAGAA GGAAGCTACT 5160 AAAAGATCTA ATTTGAAAAAA CTACAAAAGC ATTAAC TAA AAAGTTTATT TTCCTTTGT 5220 CTGGGCAGTA GTGAAAATAA CTACTCACAA CATTCACTAT GTTTGCAAGG AATTAACACA 5280 AATAAAAGAT GCCTTTTAC TTAAACGCCA AGACAGAAAA CTTGCCAAT ACTGAGAAC 5340 AACTTGCATT AGAGAGGGAA CTGTTAAATG TTTCAACCC AGTTCATCTG GTGGATGTT 5400 TTGCAGGTTA CTCTGAGAAT TTTGCTTATG AAAAATCATT ATTTTTAGTG TAGTTCACAA 5460 TAATGTATTG AACATACCTTC TAATCAAAGG TGCTATGTCC TTGTGTATGG TACTAAATGT 5520 GTCCTGTGTA CTTTGCAAC ACTGAGAAC TCGCGGCTTG GTTTAATGAG TGTGTTCATG 5580 AAATAAATAA TGGAGGAATT GTCAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA 5640 AAAAAAAAAA AAAAAAAAAA AAAAAAAA 5668
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MRNRRNDTLDSTRTLYSSASRSTDLSYSESVDNFIQANFKKRECVFTKDSKATENVCKCGYAQSQHME
GTQINQSEKWNYKKHTKEPTDAFGDIQFETLGKKGYIRLSCDTEAIEILYELLTQHWHLKTPNLVISVT
GGAKNFALKPRMRKIFSRLIYIAQSKGAWILTGGTHYGLKYIGEVVRDNTISRSSEENIVAGIAAWGM
VSNRDTLIRNCDAEGYFLAQYLMDDFTRDPLYILDNNHLLLVDNGCHGHTVEAKLRNQLEKHISERT
IQDSNYGGKIPIVCFAQGGGKETLKAINTSIKNKIPCVVVEGSGRIADVIASLVEVEDAPTSSAVKEKLV
RFLPRTVSRLSEEETESWIKWLKEILECSHLLTVIKMEEAGDEIVSNAISYALYKAFSTSEQDKDNWNGQ
LKLLLEWNQLDLANDEIFTNDRRWESADLQEVMFTAIKDRPKFVRLFENGLNLRKFLTHDVLTELFN
HFSTLVYRNQIAKNSYNDALLTFWKLVANFRRGFRKEDRNGRDEMIDELHDVSPITRHPLQALFIWAI
LQNKKELSKVIWEQTRGCTLAALGASKLLKTLAKVKNDINAAGESEELANEYETRAVELFTECYSSDEDL
AEQLLVYSCEAWGGSNCLELAVEATDQHFTAQPGVQNFLSKQWYGEISRTKNWKIILCLFIIPVGCGF
VSFRKKPVDKHKLLWYYVAFFTSPFVVFSWNVVFYIAFLLLFAYVLLMDFHSPHPPLEVLYSLVFVL
CDEVROQWYVNGVNYFTDLWNVMDTLGLFYFIAGIVFRLHSSNKSSLYSGRVIFCLDYIIFTRLIHIIFTV
SRNLGPKIIMLORMLIDVFFFIFLFAVWMVAFGVARQGILRQNEQRWRWIFRSVIYEPYLAMFGQVPSDV
DGTTYDFAHCTFTGNESKPLCVELDEHNLPRFPEWITIPLVCIYMLSTNILLVNLLVAMFGYTVGTQEN
NDQVWKFQRYFLVQEYCSRLNIPFPFIVFAYFYMVVKCFKCCKEKNMESSVCCFKNEDNETLAWEGVM
KENYLVKINTKANDTSEEMRHFRQLDTKLNDLKGLLKEIANKIK

Fig. 12B